CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

# TEST RESULTS OF GRADATION FOR WMM

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-RW-2018-03-26-03** | **Date: 28-03-18** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore. | |
| **Address** | : | Yelahanka Sub division, BBMP, Bangalore. | |
| **Project Name** | : | Improvements and asphalting to roads at Maruthinagara 3rd main road in ward no.01 of Yelahanka sub division. | |
| **Agency** | : | Sri. N. Lokareddy, No.05, 1st main road, Kaverinagara, Kavalbyrasandra, Bangalore-32 | |
| **Customer Reference** | : | EE(YNK.D)E-PMT-07/WO/135/2017-18 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 26-03-18 | |
| **Sample ID No** | : | 2018-03-26-03/01 | |
| **Type of Mix** | : | WMM ( Wet Mix Macadam) | |
| **Date of test** | : | 26-03-18 | |
| **Oven Dry Weight** | : | 11000 | Grams |

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 275 | 275 | 2.5 | 97.5 | 95-100 |
| 22.4 | 2174 | 2449 | 22.3 | 77.7 | 60-80 |
| 11.2 | 2239 | 4688 | 42.6 | 57.4 | 40-60 |
| 4.75 | 2317 | 7005 | 63.7 | 36.3 | 25-40 |
| 2.36 | 1673 | 8678 | 78.9 | 21.1 | 15-30 |
| 0.6 | 746 | 9424 | 85.7 | 14.3 | 8-22 |
| 0.075 | 1228 | 10652 | 96.8 | 3.2 | 0-5 |

AC-1

**Note:-**

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
**Authorized Signatory**
**Quality Manager**

CIVIL Pro Sig..... Date..... BANGALORE


*End of Report*

# DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007 )

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2018-03-26-03** **Date: 28-03-18** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub division, BBMP, Bangalore. |
| **Project Name** | : | Improvements and asphalting to roads at Maruthinagara 3rd main road in ward no.01 of Yelahanka sub division. |
| **Agency** | : | Sri. N. Lokareddy, No.05, 1st main road, Kaverinagara, Kavalbyrasandra, Bangalore-32 |
| **Customer Reference** | : | EE(YNK.D)E-PMT-07/WO/135/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 26-03-18 |
| **Sample ID No** | : | 2018-03-26-03/01 |
| **Type of Mix** | : | Coarse Aggregate for WMM ( Wet Mix Macadam) |
| **Date of test** | : | 26-03-18 |

**Result:**

| Index | Percentage of Flakiness and Elongation Index | Secified limits as per MORTH specification table 400-12 |
|---|---|---|
| Flakiness Index | 13.2% | Combined Flakiness & Elongation Index for WMM is Maximum 35% |
| Elongation Index | 12.4% | |
| Combined Flakiness and Elongation Index for WMM | 25.6% | |

**Note:-**

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**FOR CIVIL Pro.**

CIVIL PRO Sig..... Date..... BANGALORE

**R KARTHIK RECHAN**
**Authorized Signatory**
**Quality Manager**


*End of Report*

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# TEST RESULTS OF GRADATION FOR DBM
## (IS 2386:(Part 1) 1963 (RA2011)

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-RW-2018-04-13-01** | **Date: 14-04-18** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore. | |
| **Address** | : | Yelahanka Sub division, BBMP, Bangalore. | |
| **Project Name** | : | Improvements and asphalting to roads at Maruthinagara 3rd main road in ward no.01 of Yelahanka sub division. | |
| **Agency** | : | Sri. N. Lokareddy, No.05, 1st main road, Kaverinagara, Kavalbyrasandra, Bangalore-32 | |
| **Customer Reference** | : | EE(YNK.D)E-PMT-07/WO/135/2017-18 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Date of Receipt** | : | 13-04-18 | |
| **Sample ID No** | : | 2018-04-13-01/01 | |
| **Type of Mix** | : | DBM (Dense Bituminous Macadam) | |
| **Date of test** | : | 13-04-18 | |

| Sl.no | Description | Index | Trail 1 | Trail 2 |
|---|---|---|---|---|
| 1 | Weight of the Sample | A | 500 | 498 |
| 2 | Weight of the sample After extraction | B | 476 | 475 |
| 3 | Bitumen percentage | $\frac{A-B}{A} \times 100$ | 4.8 | 4.6 |
| 4 | Average percentage | % | 4.7 | |

AE-1

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
**Authorized Signatory**
**Quality Manager**

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